

THE MAPLIN ROADSHOW

We're on our way to say "Hi-de-Hi" to you in:
**BIRMINGHAM, EDINBURGH,
MANCHESTER, NEWCASTLE-
UPON-TYNE and NORWICH**

At the end of September 1981 we're bringing the Matinee organ and the new Atari computers to five cities in the UK. Bring your family and friends along at any time between 6 p.m. and 10 p.m. and enjoy the fabulous sounds of the superb Matinee organ played by a professional organist, or take a look at the amazing Atari computers — get your hands on them and see for yourself what they can do.

We'll have computers, peripherals and lots of software as well as Matinee organ and cabinet kits available for you to buy, saving you all the carriage costs. Come and see how easy the Matinee is to build and hear how exciting it sounds when you've done it. Come and enjoy an informal evening with your friends from Maplin in pleasant surroundings and completely free of charge. Whether you come to buy or just to look and listen we'll make you feel really welcome. Make a note in your diary now.

Itinerary

Friday 25th September —
NEWCASTLE-UPON-TYNE
Grainger Room, Newcastle Centre Hotel,
New Bridge Street, Newcastle-upon-Tyne
(5 mins from Newcastle Central Station).
Open 6 p.m. to 11 p.m.

Continued on page 2



RECHARGEABLE PP3 BATTERY

A direct replacement for the popular PP3 (6F22) size battery. It is extremely cost-effective over a period of time as it may be recharged at least 500 times even under full discharge/recharge conditions provided that ratings are not exceeded.

Nominal capacity: 110mAh
Nominal voltage: 9V
Max charging current: 11mA
Max charging voltage: 11V
Charging time: 12 to 15 hours
Size: 48.5 x 25.5 x 16.5mm
Weight: 45g

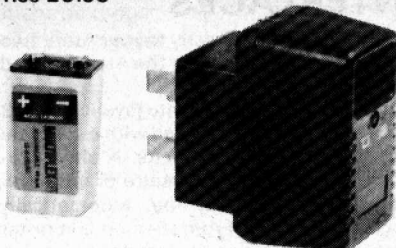
The battery may be charged using the special charger described below or by using the circuit shown on page 21 of our current catalogue. To use this circuit make R2 a 1M Res 150R.

Order As HW31J (Nicaid PP3) Price £4.95

CHARGER FOR PP3 BATTERY

The charger is moulded on to a standard 13A mains plug and the battery simply plugs into the charger. Internal mouldings prevent contact if the battery is inserted the wrong way round. When charging is in progress an LED indicator lights. Charge rate is 10mA.

Order As HW32K (PP3 Nicaid Charger)
Price £5.95



SYNTHESISERS IN KITS SAVE POUNDS

Now our superb synthesisers are available as complete kits saving over a hundred pounds on buying all the parts separately. Just look at these amazing savings:

5600S Synthesiser all parts bought separately: £766.61 plus £18.00 carriage. 5600S Synthesiser Kit only £599.95 + £20.00 carriage. Saving over £160!

3800 Synthesiser all parts bought separately: £439.75 + £17.00 carriage. 3800 Synthesiser Kit only £336.75 + £20.00 carriage. Saving £100!

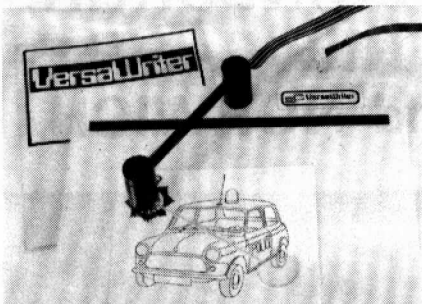
Order As LW53H (5600S Synth Kit) Price £599.95 + carriage extra £20.00
LW54J (3800 Synth Kit) Price £336.75 + carriage extra £20.00

THE NEW ATARI COMPUTERS TAKE OFF

The demand for the new Atari computers has been out of this world with hundreds already sold. But, don't worry, we've got plenty of stock. We've also got lots of exciting new software, some that you won't find elsewhere, and we're distributing copies of a new American computer magazine that specialises in the Atari. So

make sure you buy your Atari from Maplin and ensure you get the back-up that only Maplin will be able to give you. If you want to know more, ask for our new software and hardware leaflets XH52G and XH54J, both available free of charge (s.a.e. appreciated).

NEW HARDWARE FOR ATARI VERSAWRITER NEW EPSON PRINTERS



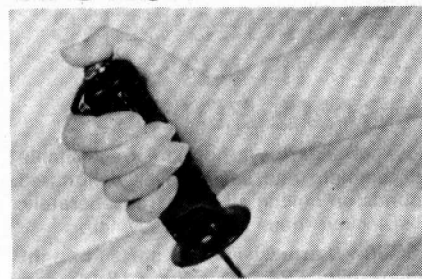
Versawriter is a digitiser drawing board and software system that allows quick entry of graphics information on the Atari high resolution or medium resolution graphics screen. The digitiser is designed to exceed the accuracy of the high-res. screen at 30 thousandths of an inch. The digitising rate is designed to meet the needs of a human operator at 30 thousandths of a second. The useful drawing area is 8 inches by 12.5 inches.

Place your original drawing, chart or diagram under the transparent mylar sheet. Trace the lines of your drawing by moving the digitiser pointer over the original. Your drawing is reproduced on the TV screen in either full or split screen mode. In addition, you can fill in closed areas with colour, change the background or drawing colours, draw with a variable size brush, add text to high resolution pictures and more.

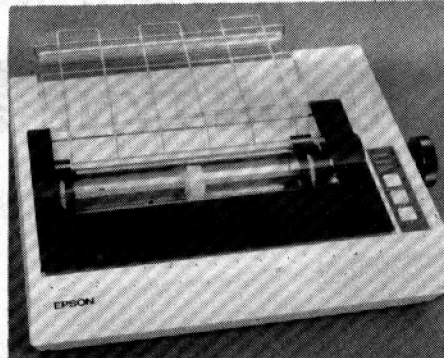
Versawriter commands are usually one letter mnemonics entered by pressing the appropriate key on the Atari keyboard. Prompt messages are liberally embedded within the program to guide the user throughout all drawing phases.

Order As:
AF43W (Versawriter) Price £169.00

LE STICK



Give the Space Invaders a fight they'll remember with our super-fast action Le Stick controllers. Replaces the standard joystick on Atari video game and Atari computers. Internal motion detectors sense hand movements and large red push-button on top of Stick is your 'fire' button. Squeeze the stick to disable the motion detectors. A MUST for the serious devotee of Space Invaders, Star Raiders, Asteroids, Missile Command etc.
Order As AC45Y (Le Stick) Price £24.95



With the advent of the Atari computers and after many requests we are now stocking the Epson range of printers. Three types are available, the MX80T which has bi-directional printing at 80 characters per second on a 9 by 9 matrix. It has a full 96 ASCII character set with descenders on lower case and will accept tractor feed paper from 4 to 10 inches; with up to 3 part stationery. Ribbon is of replacement cartridge type and has a life expectancy of 3 million characters. 64 graphic block characters can also be printed. Normal print is 10 characters per inch and condensed print gives 16.5 CPI. Both of these modes can be set to enlarged type giving 5 and 8.25 CPI respectively. In normal mode 80 characters per line are available and in condensed mode this is extended to 132. Interface is via a Centronics style 8-bit parallel.

The MX80 F/T has the same specifications as the MX80T but is also provided with friction feed facilities, allowing rolled or cut sheet paper to be used.

The MX80 F/T type 2 has the same basic specifications but has the addition of bit image printing, allowing high resolution graphics to be dumped to printer. When this mode is selected the printer becomes uni-directional.

The MX80 T and MX80 F/T offer programmable form feed, horizontal tabs, vertical tabs, and emphasised print (shift right and double strike).

Order As:
AF38R (Epson MX80T) Price £414.00
AF39N (Epson MX80F/T) Price £458.85
AF40T (Epson MX80F/T Mk II) Price £516.35

PRINTER INTERFACES

Connect a printer directly to your Atari. Two new printer interfaces for the Atari 400 and 800 are now available.

A cable assembly plugs into joystick ports 3 and 4, the other end is fitted with a standard centronics 36-pin connector. A short program is loaded from cassette or with disk based systems may be automatically booted with DOS. From then on all printer data is re-directed to the interface allowing

THE MAPLIN ROADSHOW

Continued from page 1

Saturday 26th September —
EDINBURGH
Rosebery Room, Grosvenor Centre Hotel,
Grosvenor Street, Edinburgh
(close to Princes Street and 3 mins from
Haymarket Station).
Open 6 p.m. to 11 p.m.

Sunday 27th September —
MANCHESTER
Ullswater Room, Portland Hotel,
3 Portland Street, Piccadilly Gardens,
Manchester.
(3 mins from Piccadilly station.)
Open 6 p.m. to 11 p.m.

Monday 28th September —
BIRMINGHAM
Malvern Suite, Birmingham Centre Hotel,
New Street, Birmingham
(2 mins from New Street Station).
Open 6 p.m. to 11 p.m.

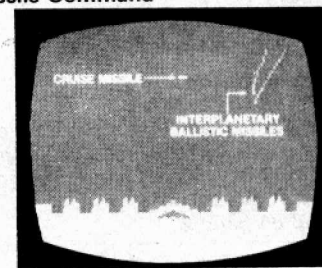
Tuesday 29th September —
NORWICH
Riverside Suite, Hotel Nelson,
Prince of Wales Road, Norwich.
(opposite Thorpe station.)
Open 6 p.m. to 11 p.m.

PLEASE NOTE: If you are coming with the thought of purchasing something, we advise you to bring cash as, because it is an evening function, it will be difficult for us to clear cheques and credit cards, unless you make arrangements through our mail-order sales office about one week in advance.

ATARI VIDEO GAME CARTRIDGES

Two more exciting new cartridges are now available for the Atari video game in addition to Othello, Video Pinball, Asteroids and War Lords released over the last three months.

Missile Command



32 games using joysticks. Rivalling Space Invaders and Asteroids in the arcades now!
Order As AC46A (Missile Command Game) Price £29.95

Flag Capture

10 games using joysticks.
Order As AC47B (Flag Capture Game) Price £16.95

all the usual BASIC, DOS or Assembler functions to be used in the usual way. The short machine code routine resides from 0700 to 07AA and is unaffected by system reset, break, or any other function. This means you need only load the routine immediately after switch on. Two versions are available due to physical differences between ports on the 400 and 800 computers.

Order As:
AF41U (400 Cent I/F) Price £49.95
AF42V (800 Cent I/F) Price £49.95

NE

Introdu...

by Ian F...

This bo...
text for...
projects...
known...
structur...
number...
given...
circuits...
1981. 9...

Order...

£3.95

Audio...

by F. G...

The bod...
range o...
mixers...
ing and...
includi...
wave s...
light m...
1981. 9...

Order...

£2.15

More E...

by And...

A selec...
comple...
precurs...
given o...
switch...
eggtime...
baby al...
1981. 8...

Order...

£3.75

Electro...

by Alan...

Several...
and ful...
Project...
lator, fr...
functio...
1981. 9...

Order...

£3.75

Electro...

by R. A...

Fifteen...
project...
setting...
for the...
sound-...
safe-li...
1981. 8...

Order...

£3.75

50 Sin...

by R. A...

A use...
LED's...
circuit...
transis...
more...
1981. 9...

Order...

£1.50

N

YK21X

YK22Y

YK23A

*These...

through

Letters to the Editor

IC Data Book Needed

Dear Sir,
At present you offer a wide range of IC's. Understandably only limited information can be shown in your catalogue. This makes designing an application circuit very difficult or impossible. At present it is possible to buy information from Maplin, costing 40p per IC. When deciding what IC is needed, information on a fairly wide range of IC's is needed. This means information on only 3 IC's would cost £1.20. As you can produce a catalogue for a pound it may be worth considering producing an IC information booklet. I am sure that it would not matter what quality paper was used in its production, providing it was available at a reasonable cost. It may also be worth considering a vote on this, as you did recently on your newsletter issue. Please let me know what you think of this idea, bearing in mind there has been correspondence on the subject in the newsletter.

P. COOPER
Harlow, Essex

Unfortunately the cost of such a book would be prohibitive for us because it would be necessary to have technical expertise devoted to its production for a considerable time. Remember that we stock over 500 IC's, so it would be quite a substantial book!

Close Tolerance Resistors

Dear Sir,
Twice during the last few weeks, I have needed a very close tolerance set of resistors, and of low resistance.

In the last instance, it was the 360TR multimeter, which is sold by Maplin, which needed repairs (mine was given me as a present some time ago), all resistors needed should have been 1% types or better, but I have never been able to purchase closer tolerances than this.

I required a 19.2R resistor, which had to be made up of several separate resistors, all of which I have ordered, and are supplied as 1% types, unfortunately I also need a 0.47R resistor, and I am having to settle for a 5% 3W type, as there are no 1% types on the market.

Would it not be possible to stock, say, the 0.22, 0.27, 0.47 and 0.33 ohm resistors in either 1 or 2% range? I realise there probably would not be a lot of call for them, but for someone building a unit which requires a resistance to be built up, they would be a godsend.

I also note that in the electrolytics, there appears to be a value missing, 270uF — trying building this up without losing too much to tolerances!

I. GREGORY
Hadfield, Cheshire

Low value close tolerance resistors are rather difficult to manufacture and although prices are coming down and technologies improving they are still largely restricted to wirewound types and rather expensive. You can use two 1R resistors in parallel to make 0.5R and don't forget that no matter how many 1% tolerance resistors you use, the overall tolerance of the network is still 1%.

Thin Aluminium Sheet

Dear Maplins,
Many thanks for your comprehensive and speedy service. Might I suggest one item which I would be glad to see added to your range? The item in question is thin (say, 22 or 24 swg) brushed aluminium sheet, for use as a 'vener' on front panels.

I realise that you already supply 16 and 18 swg aluminium sheet, but a thinner gauge would be more convenient for smaller panels, or where a large number of cut-outs is required.

On the whole, though, I am more than satisfied with your excellent service.

P. DEAR
Basingstoke, Hants

The best thing to use here would be a piece of thin tin-plate which is fairly easy to obtain and cover it with our aluminium effect laminate. See cat. page 47.

36 Hours From Northumberland To Rayleigh . . . And Back!

Dear Sirs,
Just a complimentary note about your service. I posted my letter off, and got the order a little after 36 hours had elapsed. I was astounded!

Keep up the good service.

S. TUCK
Wylam, Northumberland

All we can say is, praise where praise is due: well done the Post Office!

Radio Control Can Live With CB

Dear Editor,
I would like to raise a few points in answer to the growing criticism of your sale of CB accessories.

Modellers don't realise how much good CB could do them if they would just make the most of the situation. A large number of radio-control receivers use IC's originally designed for use in CB applications, these being cheaper than if designed only for the limited market of radio-control. Many CB aerials, transistors, etc. are ideal in RC applications and CB accessories such as field strength/power/SWR meters are useful when experimenting with, or tuning, new aerials or transmitters. These items, if on the market at all, would be considerably more expensive without the help of CB.

I am, as you may have guessed, a CB'er, but also I am a keen radio-modeller and as such I was pleased to see servo mechanics on sale in your new catalogue. However, Maplin's range of RC equipment is extremely limited: the Maplin radio control system is obsolete and totally impractical for use in the average sized model. I would suggest that Maplin introduced a system for use on 35MHz (plus market suitable crystals), AM or FM, with a miniature receiver, powerful, efficient transmitter, and miniature servo amplifiers, all running from standard 9.6V and 4.8V supplies. This would, perhaps, silence some modeller's complaints and allow them to take full advantage of CB's benefits without experiencing any of its disastrous and costly ill-effects.

D. ANSELL
Edinburgh

There is an excellent radio control system in the book "Cost Effective Projects Around The Home" by John Watson though it is still on 27MHz.

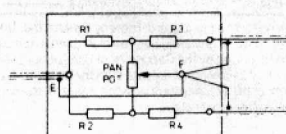
Pan Pot For Mixer

Dear Sir,
First of all may I add my congratulations to the many you must have received for your 1981 catalogue, the section index in particular saves valuable time when looking up components.

I was very interested in the mixer unit PCB details given in the new catalogue, and I intend to construct a mixer using these in the near future. Would it be possible to give details in a future newsletter for a pan pot circuit (i.e. pan pot value and resistor network value) which would suit these input and mixing modules. I am sure that this would be very useful to many intending constructors as the PCB's are much more likely to be used in a stereo mixer than in a mono mixer.

P. J. DOOREY
Northwich, Cheshire

A suitable circuit is shown below.



R1, R2 Min Res 8k2
R3, R4 Min Res 39k
Pan Pot Pot Lin 4k7

AMENDMENTS TO CATALOGUE

Please amend your 1981 catalogue as follows:

Page 17/18
BW46A, 47B and 48C are replaced by the UP1300/V which is a wideband amp covering the whole UHF band. The new amp gives a typical gain of 13dB and a much improved noise figure of typically 2.5dB.

BW49D is replaced by the UP1300/V which has a typical gain of 19dB and a 2.5dB noise figure.

BW50E is replaced by the PU1240 which is electrically the same as the PU102, but is in a box like YQ22Y and has co-ax sockets for both sides of the aerial lead, instead of screw terminals, making connection simpler.

Page 20
Telescopic Aerial (LB10L) now only 4ft long and slightly thicker at base.

Page 47
XY17T and XY18U are now being supplied in a smaller size. New size is 33 x 12in. (835 x 305mm).

Page 70
Electric pump XY74R is now supplied complete with a pressure gauge. Suppressor capacitor HW02C is 1µF.

Page 104
5A Plug (HL57M) is bakelite and not nylon.

Page 107
Touch Dimmer (FQ14Q) is 250W (not 630W).

Page 115
Order codes for Slotted Nuts are WL43W (Collet Rd Nut 3/16in) and WL44X (Collet Rd Nut 10mm).
RX38R, Ebonite Rod is now being supplied in nylon.

Page 133
1mm light guide (XR56L) now being supplied with black protective sheath. Overall dia. 2.2mm.

Page 137
The spacesound units are now being supplied in slightly different sizes.

Pages 154
BB67X (3600 VCF Mtg Bkt) should be included in the list under the heading "Mounting Brackets".

Page 182
Please note picture of stylus 29 is incorrect. The shaft is round not square. Please note picture of stylus 31 is incorrect.

Page 184
Musicentre kit C113 (LX03D) is supplied with one bottle of fluid only.

Page 201
QH55K (MJE2955) is now being supplied as TIP2955 and QH56L (MJE3055) as TIP3055. Please note VC80 is now 100V, VEB0 is now 7V. IC (max) is now 15A, and the pin-out is now style P3C.

Page 229
In suggested PSU for LM383, the top end of the Std Res 100R should be connected to the collector of Q1 NOT the emitter.

Page 232
The pin-outs for the NE571 and TDA3410 are swapped over.

Page 235
The delay given by the TDA1022 is between 512us and 51.2ms and not as stated in line 2.

Page 243
In Parts List C11 is BX11M price 11p.

Page 245
The IC pin numbers in the right-hand drawing under the heading LM3911 are incorrect. The left-hand drawing is correct.

Page 255
The pin numbers on the IC package drawing under the heading L200 are in reverse order. They should be in sequence with 5 at the top and 1 at the bottom.

Page 266
Small Thermopath (HQ00A) is now supplied in 10g tubs.

Page 276
Dual rocker neon (YR70M) requires a panel cut-out 29 x 22mm.

Page 299
Crimp tool (FY31J) is improved with an additional 1mm² stripper and crimpers for 1.5, 2.5, 4 and 6mm press terminals.

Page 301
Needle file set (YW63T) now contains only 10 files; there is one flat warding and one hand file, not two of each.

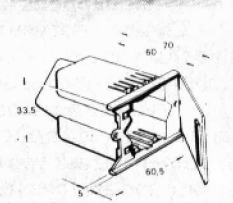
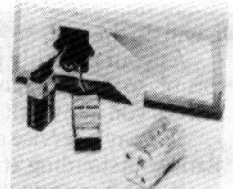
Page 319
The alphabetical order under S is incorrect. "Semiconductor Finder" should come after "Self-Tappers" and "Stand-offs" after "SRBP".

VERSATILE BATTERY HOLDER

A battery holder in grey polypropylene that will accept two PP3 batteries or four AA cells in a "6V Batt Box" (HF29G). The holder has a hinged cover which opens easily for battery change and snaps closed securely.

The holder will clip into panels with a 1.5mm or 3mm gauge or it may be screw-fixed (M3) to any thickness panel. A 45-25mm square cut-out is required in the panel. The battery holder is supplied with two PP3 battery snaps.

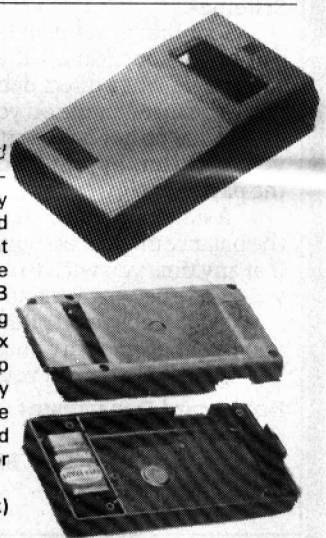
Order As HY32K (Large Batt Hldr) Price £1.75



CALCULATOR-STYLE HAND-HELD VEROBOX

An attractive calculator-style hand-held box moulded in brown high-impact polystyrene with a textured finish. A battery compartment is moulded into the case and has its own clip-on cover. The compartment will accept a PP3 battery. Three pillars are provided in the base to which a PCB measuring 105 x 56mm may be fixed using No. 4 self-tapping screws. A PCB (107 x 71mm) can also be mounted in the top section using the pillar next to the battery compartment. A spigot is moulded into the base for PCB location. The box is supplied complete with four self-tapping screws for holding the two parts together.

Order As YK24B (Calc-Style VeroBox) Price £4.25



1981
Catalogue
Page No

FH15R Lo
YX56L Ch
YX64U Mi
YX65V Mi
FH21X He
FH22Y He
FH23A He
FH24B He
FH25C He
FH26D He
FH27E He
FH30H SP
FH31J SP
YR68Y R
YR69A R
FH34M D
YR70M D
XX26D Di
XX27E Di
XX28F Di
XX29G Di

PAGE 27
FF73Q Ro
FF74R Ro
FF75S Ro
FF76H Ro
FH42V Ro

FH43W Ro
FH44X Ro
FH45Y Ro
FF83E Th
FF84F Th
FF86T Th
YR77J Pu
YR78K Pu
YR79L Ke
FH40T Ke
FH57M Ro
FH59D Ro

PAGE 278
FH46A Ma
FH47B Ma
FH48C Ma
FH49C Ma
FH50E Ma

FH51F Ma
FH52G Ma
FH53H Ma
FH54J Ma
FH55K Ma
FH56L Ma
FH57M Ma
FH58N Ma
FH59D Ma

FF61R Key
FF62S Key
FF63T Key
FF64U Key
FF65V Key
YR71N Sw

PAGE 279
FF77J SP
FH35Q Sub
FF79L Lon
FH36P Sld
FH38R 4-P

YR67X HQ
FH59P Pus
FH60Q Bre
FH61Y Mof
FF96E Mo
FF97F Squ
FF98G Squ
FF99H Squ
YW41U Squ
YW42V Squ
YW43W Squ
YW44X Squ
FH41U Pus
FH66W Pus
FH94C Pre

PAGE 280
FH92A Pre
FH93B Pre
LB64U Foo
FH37S Mai
LB91Y Fias

LQ00A Beg
LQ01B Beg
HY00A Tou
HY01B Tou
YR88V Sole
YR89W Sole

PAGE 281
FH67X Lat
FH68Y Lat
FH69A Lat
FH70M Lat
FH71N Lat

BW11M Lat
BW12N Lat
FH72P Mai
FH74R Mai
FH75S Lat
FH76H Lat
FH78K Lat
FH80B Lat
FH82D Lat
FH84F Lat

PAGE 282
FL31J Rd
FL32K Rd
FL33L Rd
FL34M Rd
FL35Q Rd

FL36P Rd
BW13P Sm
BW14Q Sm
FH61R Rct
FH62S Rct